

Low VF Schottky Barrier Rectifiers

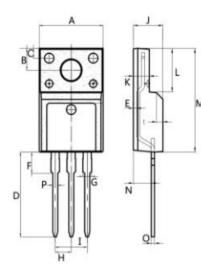
ITO-220AB

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
 Flame Retardant Epoxy Molding Compound.
- · Metal silicon junction, majority carrier conduction
- · Low power loss, high efficiency.
- · High current capability
- For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications.
- . Lead free in comply with EU RoHS

MECHANICAL DATA

- Case: ITO-220AB molded plastic
- Terminals: Solder plated, solderable per MIL-STD-202, Method 208
- · Polarity: As marked.
- Mounting Position: Any



Dim.	Min.	Max.	
Α	9.95	10.25	
В	2.95	3.25	
С	1.25	1.45	
D	12.95	13.25	
E	0.50	0.65	
F	3.1	3.3	
G	1.30	1.45	
Н	Typ 2.54		
10	Typ 5.08		
J	4.60	4.75	
K	2.50	2. 65	
L	6.35	6.55	
М	15.4	16.0	
N	2.75	3.05	
0	0.48	0.52	
Р	0.76	0.84	

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Characteristics		Symbol	Value	Unit	
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	100	V	
Working Peak Reverse Voltage		V_{RWM}	100	V	
Maximum DC Blocking Voltage		V_{DC}	100	V	
Maximum Average Forward Rectified Current	Per Leg	_	5	А	
	Total	I _O	10		
Peak Forward Surge Current,8.3 ms Single Half Sine-wave		I _{FSM}	80	А	
Operating Temperature Range		T _J	-50 to +150	°C	
Storage Temperature Range		T _{STG}	-50 to +150	°C	
Typical Thermal Resistance (Note1)		$R_{\theta JC}$	4	°C/W	

Note1: Thermal resistance from Junction to case per leg mounted on heatsink.



MBR10100L Low VF Schottky Barrier Rectifiers

ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise noted)

Characteristics		Symbol Value		ue	Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I _F =1A	TA=25°C		0.45	-	
	TA=125°C		0.36	-	I
at I _F =2A	TA=25°C	V_{F}	0.51	-	V
	TA=125°C		0.46	-	
at I _F =5A	TA=25°C	1 [0.67	0.72	
	TA=125°C		0.62	-	
Maximum Reverse Current at V _R =100V	TA=25°C		5	30	μΑ
	TA=125°C	I _R	3	-	mA

Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

RATING AND CHARACTERISTIC CURVES

